



IRW

Attorney Docket No. 5000.238A
Confirmation No. 3779

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Davis Andrew McClure et al.
Serial No. 10/709,780
Filed: May 27, 2004
For: METHODS OF TREATING A SILICON CARBIDE
SUBSTRATE FOR IMPROVED EPITAXIAL DEPOSITION
AND RESULTING STRUCTURES AND DEVICES

Group Art Unit: 2811

October 22, 2004

Mail Stop Missing Parts
Commissioner for Patents
Alexandria, VA 22313-1450

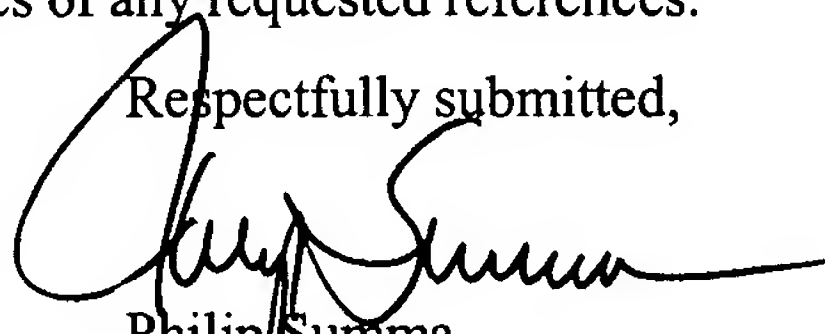
**INFORMATION DISCLOSURE STATEMENT
CITATION UNDER 37 C.F.R. 1.97**

Sir:

Attached is a list of documents on Form PTO/SB/08. It is requested that the Examiner consider these documents and officially make them of record in accordance with the provisions of 37 C.F.R. § 1.97 and MPEP § 609.

This application is a divisional of U.S. Application No. 10/248,586, filed 01/30/2003. Because reference Nos. 1-22 were also cited in that case, copies are not being supplied herewith. Reference No. 23, a non-patent reference, was not previously cited and a copy is enclosed. Applicants will, of course, supply the Office with copies of any requested references.

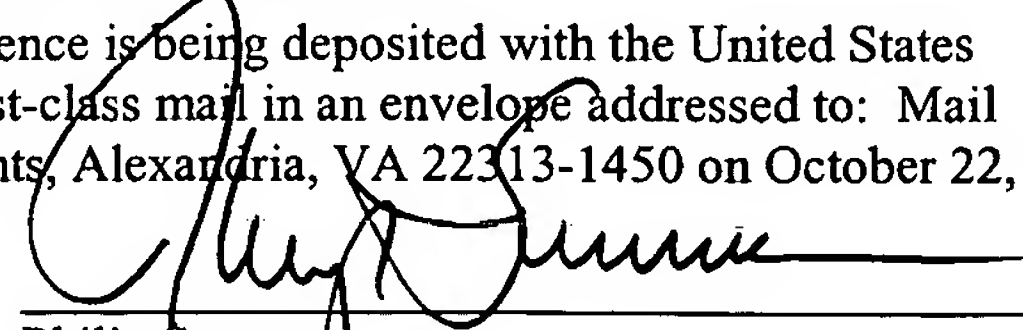
Respectfully submitted,


Philip Summa
Reg. No. 31,573

021176
Summa & Allan, P.A.
11610 North Community House Road
Suite 200
Charlotte, NC 28277-2162
Telephone: 704-945-6700
Facsimile: 704-945-6735
S:\FIRM DOCS\5000\238a\IDS102204.doc

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first-class mail in an envelope addressed to: Mail Stop Missing Parts, Commissioner for Patents, Alexandria, VA 22313-1450 on October 22, 2004.


Philip Summa



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

1

of

2

Complete if Known

Application Number	10/709,780
Filing Date	05/27/2004
First Named Inventor	Davis Andrew McClure et al.
Art Unit	2811
Examiner Name	
Attorney Docket Number	5000.238A

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US- 6,187,606 B1	02-13-2001	Edmond et al.	
	2	US- 6,120,600	09-19-2000	Edmond et al.	
	3	US- 5,523,589	06-04-1996	Edmond et al.	
	4	US- 5,900,647 A	05-04-1999	Inoguchi	
	5	US- 6,552,376 B1	04-22-2003	Koike et al.	
	6	US- 6,555,452 B2	04-29-2003	Nikolaev et al.	
	7	US- 6,632,694 B2	10-14-2003	Torvik	
	8	US- 3,629,011	12-21-1971	Tohi et al.	
	9	US- 2003/0006417 A1	01-09-2003	Klosowiak et al.	
	10	US- 2002/0031851 A1	03-14-2002	Linthicum et al.	
	11	US- 5,786,606 A	07-28-1998	Nishio et al.	
	12	US- 6,667,495 B2	12-23-2003	Friedrichs et al.	
	13	US- 5,273,933 A	12-28-1993	Hatano et al.	
	14	US- 6,232,244 B1	05-15-2001	Ibok	
	15	US- 6,277,707 B1	08-21-2001	Lee et al.	
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	16	PCT WO 00/79570 A2	12-28-2000	Advanced Tech. Materials		
	17	DE 199 44 144 A1	04-12-2001	Rosendorf Forschzent		✓

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08b (08-03)

Approved for use through 06/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete If Known	
				<i>Application Number</i>	10/709,780
				<i>Filing Date</i>	05/27/2004
				<i>First Named Inventor</i>	Davis Andrew McClure et al.
				<i>Art Unit</i>	2811
				<i>Examiner Name</i>	
Sheet	2	of	2	<i>Attorney Docket Number</i>	5000.238A

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	18	F.J. CAMPOS ET AL.; Confocal Micro-Raman Characterization of Lattice Damage in High Energy Aluminum Implanted 6H-SiC; Journal of Applied Physics; January 1, 1999; pgs. 99-104; Vol. 85, No. 1; American Institute of Physics, New York, US		
	19	M.B. SCOTT ET AL.; High temperature (500 degrees C) Implantation study of P+ and N+ implanted epitaxial N-type 4H-SiC; Compound Semiconductors 1998, Proceedings of the 25th International Symposium on Compound Semiconductors; Nara, Japan, October 12-16, 1998; pages 763-768; Vol. NR. 162; Institute of Physics Conference Series, London		
	20	ISSEY OHTA ET AL.; An Ideal-Profile Implantation Process for GaAs Analog MMICs; Proceedings of the Gallium Arsenide Integrated Circuit Symposium, Grenelefe, Florida, October 28-30, 1986; pgs. 55-58; Vol. SYMP. 8; IEEE, New York, US		
	21	W.M. DUNCAN ET AL.; A Single Step Selective Implantation Technology for Multiply Doped Layers Using Proximity Annealing; IEEE Electron Device Letters; December 1981; pgs. 309-311; Vol. EDL-2, No. 12; IEEE Inc., New York, US		
	22	H. J. HOVEL; Implant Profile Adjustment with GaAlAs Caps; IBM Technical Disclosure Bulletin; February 1985; pgs. 5360-5361; Vol. 27, No. 9; IBM Corp., New York, US		
	23	S. K. LEE ET AL.; Electrical characterization of TiC ohmic contacts to aluminum ion implanted 4H-silicon carbide; Applied Physics Letters; Sept. 4, 2000; pp 1478-1480; Vol. 77, No. 10		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.